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l,	The Last German State Geological Commission (State Kommission), Invalidenstrasse lib, bast Borlin, is Director Karl Neumann. It has four people's come its direct supervision:	responsible to	
	a. VEB Schachtbau (Shaft Construction), Leipzig.		
	b. <u>VEB Bohrung</u> (Brilling), Leipzig.		
	c. VEB Ausruestung (Equipment), Brieselang.		
	d. VLB Geophysik, Leipzig C 1, Martin-Luther-Ring	g 13.	
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In addition to these departments, <u>VEB Geophysik</u> has a drafting office, a geological office, an office for the technology of equipment (Geraetetechnik) and a transportation service.

- 5. Departments Refraktion and Reflexion are mainly engaged in surveying the territory of Last Germany for oil deposits. Holes are bored into the ground, filled with powder and touched off. The sound waves are registered on a film.1/ The picture of the sound waves gives an indication of reflecting layers in the soil. In conjunction with geological considerations this method is supposed to locate oil deposits. The two departments have surveyed the North German lowlands (Norddeutsche Tiefebene) from Boltenhagen (Baltic Sea) to Lenzen (Elbe) and Mittenwald. Thus far no oil deposits have been located as a result of the work of the two departments. However, as a result of their findings, deep borings were begun near Lenzen and near Camin. The Lenzen boring has reached a depth exceeding 1,000 meters; the boring is deepened by 35 centimeters per day.
- 6. Department Magnetik is engaged in the locating of ore deposits, mainly iron, nickel and copper cres. The measurements are carried out by means of a so-called "field scale." Which measures the "vertical intensity of the underlying reological layers." Two types of scales are in use:
 - a. An old type, called "edge scale" (Schneidewage), which uses a magnetic needle placed upon a quartz edge. This instrument requires use of an additional magnet, the so-called return magnet (Rueckfuchrungsmagnet), which returns the magnetic needle—to level position after it has been vertically deviated. The vertical intensity is determined from the known characteristics of the return magnet. This instrument has the drawback that it becomes inaccurate in measuring—strong deviations.
 - b. A new type, developed in 1951 by Prof. fanselau (fmu), head of the Observatorium fuer Erdnagnetismus (Observatory for Earth Magnetism) in Niemegk, Kreis Zauch-Belzig. This instrument, called "thread scale" (Fadenwage), uses a magnet suspended from a thin metal band about 0.5 mm. wide. Vertical deviations of the magnet twist the metal band. The band is returned to its original position with the aid of a spindle consected with a pitch circle, from which the vertical intensity is read of through a lens optics. The instrument, which costs arout 10,000 DAL, is fabricated by the Askania works in Berlin-Teltow.

Department Magnetik conducts two kinds of surveys: rough surveys (Sichtmessungen), with the measurement points located at distances of between 600 and 1,000 meters from each other and arranged in a chose board pattern; and detailed surveys (Feinmessungen), with the points at distances of a meter and less from each other. The rough surveys serve the purpose of locating the areas in which are deposits can be reasonably expected to be. Such areas are subsequently subjected to detailed surveys. The department has surveyed the entire territory of the Middle Thuringia Forest (Mittelthueringischer Wald) from Koenigssee to Marisfeld, partly with fine surveys. The following are deposits were discovered through the work of the department: magnetite deposits near Schmiedefeld am Rennsteig (mining has not yet begun); nickel deposits near Callenterg bei Hohenstein (mining is in progress); hematite deposits near Schleitz (boring work was recently started).

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- 7. Department Gravimetrik is engaged in checking and re-establishing a gravimetric net for the entire territory of last Germany. The department works with two modern gravimeters bough from Sweden in the fall of 1952. One of them is used for a rought survey throughout hast Germany; the other one is currently being utilized for a detailed surveying of the northeast part of the Harz Mountains.
- 8. Department blektrik has not developed beyond the experimental stage; it is not yet engaged in full-fledged field work. Its assignment is to investigate the electrical conductivity of mineral deposits by measuring specific potential (hipenpotential) and resistance. In vestigation of the electrical conductivity of minerals is to be used as the basis for conclusions on the geological formation of the soil.
- 9. VEB Geophysik has had a unilateral connection with the Geophysical Institute in Budapest, Buncary; wille the latter institute repeatedly sent visitors to the German enterprise, no Germans were allowed to return the visits. In 1952, Chinese visitors appeared at VEB Geophysik and took along the first few thread scales out of an order of 300 to be delivered to China.

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	or other the s	cound waves we	e trinsformed.	1
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